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DATASHEET

MDCPG

Product overview

Name	MDCPG
Cat No	HB1602
Alternative names	(RS)-MDCPG
Description	Selective mGlu ₈ receptor antagonist

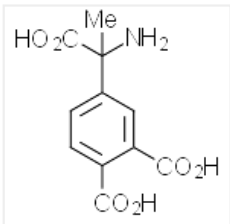
Biological Data

Biological description	Selective mGlu ₈ receptor antagonist ($K_i = 2.3 \mu\text{M}$ in mouse hippocampal slices). Can be used to distinguish actions of DCPG on mGlu ₈ receptors versus off-target effects on mGlu ₂ receptors. Also shown to reverse DCPG induced long term depression.
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Solubility & Handling

Storage instructions	+4 °C (desiccate)
Solubility overview	Soluble in 0.1M NaOH (100mM) and in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(RS)-4-(1-Amino-1-carboxyethyl)phthalic acid
Molecular Weight	253.06
Chemical structure	
Molecular Formula	C ₁₁ H ₁₁ NO ₆
PubChem identifier	91996985
SMILES	CC(C1=CC(=C(C=C1)C(=O)O)C(=O)O)(C(=O)O)N
InChi	InChI=1S/C11H11NO6/c1-11(12,10(17)18)5-2-3-6(8(13)14)7(4-5)9(15)16/h2-4H,12H2,1H3,(H,13,14)(H,15,16)(H,17,18)
InChiKey	IGLGZJSKFBLMKQ-UHFFFAOYSA-N

References

Characterisation of an mGlu8 receptor-selective agonist and antagonist in the lateral and medial perforant path inputs to the dentate gyrus.

Mercier MS *et al* (2013) Neuropharmacology 67

PubMedID [23220400](#)

Antagonists reversibly reverse chemical LTD induced by group I, group II and group III metabotropic glutamate receptors.

Lodge D *et al* (2013) Neuropharmacology 74

PubMedID

[23542080](#)
